DEC 0 5 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Technology Center 2600

NOV 30 1015 Agriplicants

: Haruko TERAI et al.

Group Art Unit: Not Yet Assigned

ppl. No.

: 10/541,544 (U.S. National Stage of PCT/JP03/017008)

I.A. Filed

: December 26, 2003

Examiner: Not Yet Assigned

For

: DISPLAY APPARATUS AND DISPLAY METHOD

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
U.S. Patent and Trademark Office
Customer Service Window, Mail Stop AMENDMENT
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Sir:

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98, Applicants hereby submit a copy of an English language translation of the International Preliminary Examination Report completed on April 13, 2005, with respect to patent family member PCT/JP2003/017008, in which no prior art documents were cited.

Should the Examiner have any questions, the Examiner is invited to contact the undersigned at the below-listed telephone number.

Respectfully Submitted, Hideaki KAWAMURA et al.

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PATENT COOPERATION TREATY



Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P032966-P0	FOR FURTHER A	ACTION	See Form PCT/IPEA/416			
International application No. PCT/JP2003/017008		date (day/month/year) 1003 (26.12.2003)	Priority date (day/month/year) 06 January 2003 (06.01.2003)			
International Patent Classification (IPC) or no G09G 3/20, 3/28		•	00 3411441 2003 (00.01.2003)			
Applicant MATSUS	SHITA ELECTRI	C INDUSTRIAL C	CO., LTD.			
This report is the international prelim Authority under Article 35 and transi	ninary examination remitted to the applican	port, established by this t according to Article 3	International Preliminary Examining 6.			
2. This REPORT consists of a total of3 sheets, including this cover sheet.						
 This report is also accompanied by ANNEXES, comprising: a. (sent to the applicant and to the International Bureau) a total of 4 sheets, as follows: 						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
	, conta	uning a sequence listing	pe and number of electronic carrier(s)) g and/or tables related thereto, in computer o Sequence Listing (see Section 802 of the			
4. This report contains indications relating to the following items:						
Box No. I Basis of the rep	Box No. I Basis of the report					
Box No. II Priority						
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
<u> </u>	Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
— ·	Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of	f this report			
29 July 2004 (29.07.2004)		13 A	April 2005 (13.04.2005)			
Name and mailing address of the IPEA/JP		Authorized officer				
Facsimile No.		Telephone No.				

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/JP2003/017008

Box No	. I	Basis of the report				
1. With other	regard	d to the language, this report is based on the international application in the landicated under this item.	nguage in which it was filed, unless			
	This which	s report is based on translations from the original language into the following the characteristic of a translation furnished for the purpose of:	ng language,			
		international search (under Rules 12.3 and 23.1(b))				
		publication of the international application (under Rule 12.4)				
		international preliminary examination (under Rules 55.2 and/or 55.3)				
jurni.	shed to are not	d to the elements of the international application, this report is based on o the receiving Office in response to an invitation under Article 14 are referr t annexed to this report):	(replacement sheets which have been red to in this report as "originally filed"			
	The i	international application as originally filed/furnished				
	the de	escription:				
	pages		, as originally filed/furnished			
	pages					
	pages		·			
	the cl	laims:				
	pages		, as originally filed/furnished			
	pages	,	gether with any statement) under Article 19			
	pages		31 March 2005 (31.03.2005)			
	pages	received by this Authority on	·			
	the dr	rawings:				
	pages		, as originally filed/furnished			
	pages					
_	pages					
	a sequ	uence listing and/or any related table(s) - see Supplemental Box Relating to Se	equence Listing.			
3: 🗌	The a	amendments have resulted in the cancellation of:				
		the description, pages				
	Ħ	the claims, Nos.				
	Ħ	the drawings, sheets/figs				
	Ħ	the sequence listing (specify):				
	any table(s) related to sequence listing (specify):					
		any and to sequence using (specify).				
4.	made, (Rule	report has been established as if (some of) the amendments annexed to this as, since they have been considered to go beyond the disclosure as filed, as 270.2(c)).	report and listed below had not been sindicated in the Supplemental Box			
		the description, pages				
	_	the claims, Nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
* If iten	n 4 app	plies, some or all of those sheets may be marked "superseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

citations and explana	tions supporting such statement	industrial applicability;		
1. Statement				
Novelty (N)	Claims	1-12	YES	
	Claims		NO	
Inventive step (IS)	Claims	1-12	YES	
	Claims		NO	
Industrial applicability (IA)	Claims	1-12	YES	
	Claims	<u></u> -	NO	
		<u> </u>	No	

2. Citations and explanations (Rule 70.7)

The subject matters of claims 1-12 appear to be novel and to involve an inventive step, since they are not disclosed in any of the documents cited in the ISR.

Especially, none of the documents discloses a display apparatus using the sub-field method for gradation control, in which (1) first and second pixels are disposed at one pair of diagonal positions, while third and fourth pixels are disposed at the other pair of diagonal positions, (2) first to fourth light emission patterns are allocated to the first to fourth pixels vertically and horizontally adjacent to each other, (3) the combination pattern of light emission and non-light emission in the predetermined sub-fields excluding the sub-field having the largest weight value among plural sub-fields is made different from pixel to pixel among the first to fourth pixels, and (4) the gradation levels expressed by the light emission patterns of the first and second pixels are made lower than the mean value of the gradation levels expressed by the light emission patterns of the first to fourth pixels, while the gradation levels expressed by the light emission patterns of the third and fourth pixels are made higher than the mean value of the gradation levels expressed by the light emission patterns of the first to fourth pixels.

Furthermore, since this constitution allows the pseudo contour noise to be inhibited irrespective of the moving direction of the line of sight, a person skilled in the art could not have easily conceived of it.